

AMENDMENTS TO THE SPECIFICATION:

Please replace the paragraph on page 7, lines 13-19 with the following amended paragraph:

The band-pass filter 310 may include resistors 314 and 322, capacitors 312 and 324 and transistors 316 and 318. The transistors 316 and 318 may be electrically coupled between VCC and VSS and operate as an operational amplifier (shown collectively as element 311). The comparator 340 may include transistors 342 and 344 electrically coupled between VCC and VSS. The comparator 340 operates to sense if the detected resonance signals are above a certain threshold, which is set by the difference of the trip points of the operational amplifier and the comparator 340.